

It is my belief based upon my experience of over 30 years as an electronics engineer that this proposal will seriously disrupt HF and low VHF RF communications.

Power lines have been constructed to be efficient transmission lines at 60 Hz. and no thought has been given to their high frequency characteristics. Obviously the utilities will not rebuild their existing lines to achieve non-radiation. Experience has shown that these transmission lines are usually good radiators instead of transmission lines at frequencies above a few MHz. I think this technology will cause major problems with AM Broadcast, military HF, and amateur radio communications.

If the power utilities are interested in providing broadband data services, it seems to me that this end could best be achieved by adding a fiber optic cable to the transmission lines. I do not think the electronics interface costs would be much different than the costs associated with the necessary high voltage decoupling circuitry that will be required for the proposed service.

Thank you,

Walter H. Bailey